

Title (en)
DUPLEX-TYPE HEAT EXCHANGER AND REFRIGERATION SYSTEM EQUIPPED WITH SAID HEAT EXCHANGER

Title (de)
DUPLEX-WÄRMETAUSCHER UND MIT DIESEM WÄRMETAUSCHER AUSGESTATTETES KÜHLSYSTEM

Title (fr)
ECHANGEUR THERMIQUE DE TYPE DUPLEX ET SYSTEME DE REFRIGERATION EQUIPE DE CET ECHANGEUR

Publication
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Application
EP 02711306 A 20020204

Priority
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• US 30268701 P 20010705

Abstract (en)
[origin: WO02063223A1] This duplex-type heat exchanger is adapted to a vapor compression type refrigeration cycle in which a condensed refrigerant is decompressed and then evaporated. This duplex-type heat exchanger is integrally equipped with a subcooler S in which the condensed refrigerant exchanges heat with the ambient air A to be subcooled and an evaporator E in which the decompressed refrigerant exchanges heat with the ambient air A to be evaporated. Heat exchange is performed between the refrigerant passing through the subcooler S and the refrigerant passing through the evaporator E, to thereby cool the refrigerant in the subcooler S and heat the refrigerant in the evaporator E. Accordingly, according to this heat exchanger, a high refrigeration effect can be obtained while avoiding the pressure rise of the refrigerant.

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IPC 8 full level
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• [A] US 6021846 A 20000208 - SASAKI HIRONAKA [JP], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 01 31 January 1997 (1997-01-31)
• See references of WO 02063223A1

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WO 02063223 A1 20020815; AT E371840 T1 20070915; AU 2002230140 B2 20060810; CN 1275012 C 20060913; CN 1502029 A 20040602; DE 60222092 D1 20071011; DE 60222092 T2 20080724; EP 1360445 A1 20031112; EP 1360445 A4 20060301; EP 1360445 B1 20070829; KR 100865982 B1 20081029; KR 20030072622 A 20030915; US 2004154331 A1 20040812; US 6973804 B2 20051213

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